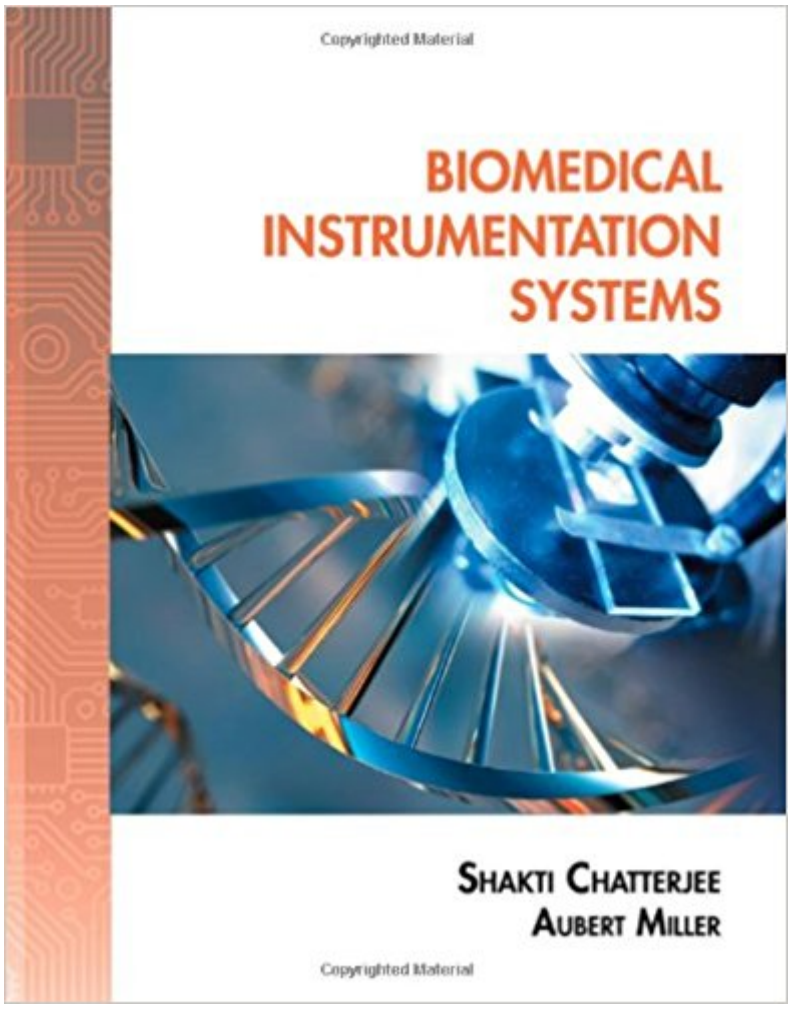
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Biomedical Instrumentation Systems



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Synopsis

Learn to maintain and repair the high tech hospital equipment with this practical, straightforward, and thorough new book. Biomedical Instrumentation Systems uses practical medical scenarios to illustrate effective equipment maintenance and repair procedures. Additional coverage includes basic electronics principles, as well as medical device and safety standards. Designed to provide readers with the most current industry information, the latest medical websites are referenced, and today's most popular software simulation packages like MATLAB and MultiSIM are utilized.

Book Information

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Customer Reviews

Dr. Shakti Chatterjee has taught Electronics for 25 years, currently at DeVry Columbus, he consults in the Biomedical field, and teaches Bioinstrumentation at The Ohio State University.

Shopping for the book was fine and the delivery was on time ! I do not like the way this Author of the book sets up the math equations, they are drawn out with an explanation that does not help u solve the problem. The math examples do not have answers in the book. The Author shows you how to sets up the math problems "HIS WAY ", but most of the time does not complete the problem or if it is completed I could never figure out how he did it. I have not taken calculus yet, so I do not think he was using calc for the math problems. Again the math problems or any of his quiz or test questions do not have answers in the back of the book. I feel that the book is set up backwards and that a general overview of medical equip should be first then in the later chapters the harder math. I

ABSOLUTELY DO NOT SUGGEST A TEACHER TO CHOOSE THIS BOOK TO INSTRUCT FROM ! This is the worst book that I have used since I have been taking classes !

Book just as described!!!

Good deal very satisfied!

We used Biomedical Instrumentation Systems by Chatterjee in one class of Dutch biomedical technology students, working in hospitals that had already followed some classes in biomedical technology, with science, chemistry and some first year undergraduate level mathematics. In a small commission of 4 lecturers we assessed a couple of the well known books about the subject and we eventually choose the book by Chatterjee because it mixed the best with our knowledge of the curriculum and the studentÃƒÂ¢Ã â ¬Ã â„¢s abilities. We think the book is good because it delivers all the subjects of biomedical technology in a not too basic and not too advanced level. It has the scientific level we just find appropriate, the level of end first year, beginning second year of the relevant bachelor studies. We are quite satisfied and are going to use it in the next class this year.ChatterjeeÃƒÂ¢Ã â ¬Ã â„¢s book expects a broad interest in digital and analog electronics, principles of physics and a rather good understanding of anatomy and physiology and this packet of all kinds of various subjects asks solid study efforts of the students. The lecturer or professor has a lot to explain but the book offers a thorough basis and a certain degree of freedom to supplement the subjects.Of course the book has some disadvantages. What amazed us is the remarkable mixture of SI-metric, obsolete metric units and units from the American customary system. We thought that would not be a major point of difficulties, but we had to translate some parts of the book because European students donÃƒÂ¢Ã â ¬Ã â„¢t have any clue about non-metric units. And even I (an almost retiring lecturer) had to study some literature about the older metric systems of 50 and more years ago to understand the matter. I think it is not understandable why a modern technologist like Chatterjee should use non-metric units. And the use of old metric units seems us to be a bit too far from understanding. I hope Chatterjee will change to the SI-metric unit system in the next editions of his good book.Another point of concern is the absence of worked out problems, because of which students might have trouble to study the matter on their own. So they have to lean a lot upon the professorÃƒÂ¢Ã â ¬Ã â„¢s back. In our class we solved this by using a supplementary paper with worked out problems and answers of the quiz questions from the book. That paper we also used to supplement some subjects that needed a deeper understanding than the book offers,

but that are set by the curriculum.Well, in short: a good book for first year/second year undergraduate students but with some shortcomings that need repair in a next edition.

This book is a great intro to biomedical instrumentation for the Biomedical Engineering Technology level or intro Engineering level. Chatterjee's book is a significant, updated improvement compared to the standard Carr and Brown text. In addition the digital circuit review chapter is helpful. Hopefully the next edition will add even more problems to the instructor materials with a higher level of difficulty.

Good information presented throughout the context of the book, however the book leaves the student out in left field at the end of each chapter quiz, problems, and etc. Consequently, the student must rely on their previous education, experience, or research the topic to complete the end of chapter review.

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